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13. The method of claim 12, wherein said material comprising chlorosilyl groups is selected from the group consisting of SiCl_4 , SiHCl_3 , SiH_2Cl_2 and $\text{Cl}-(\text{SiCl}_2\text{O})_n-\text{SiCl}_3$, wherein n is an integer.

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14. The method of claim 12, wherein p represents 0.

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15. A vehicle part made by the method of claim 12.

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16. A method of applying a fluorocarbon-based polymer coating film to an apparatus comprising:

a. contacting an apparatus having a surface containing hydroxyl groups with a non-aqueous solvent comprising a material comprising chlorosilyl groups to form a siloxane-based film on the apparatus surface; and

b. coating the siloxane-based film with a non-aqueous solvent comprising a compound comprising a fluorocarbon group and a chlorosilyl group, represented by the formula: $\text{CF}_3-(\text{CF}_2)_n-(\text{R})_m-\text{SiX}_p\text{Cl}_{3-p}$ where n represents 0 or an integer; R represents an alkylene group or a hydrocarbon substituted group containing $\text{C}=\text{C}$ or $\text{C}\equiv\text{C}$, a silicon atom or an oxygen atom; m represents 0 or 1, X represents a hydrogen atom or an alkyl group; p represents 0, 1 or 2.

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17. The method of claim 16, wherein said material comprising chlorosilyl groups is selected from the group consisting of SiCl_4 , SiHCl_3 , SiH_2Cl_2 and $\text{Cl}-(\text{SiCl}_2\text{O})_n-\text{SiCl}_3$, wherein n is an integer.

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18. The method of claim 16, wherein p represents 0.

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19. The method of claim 16, wherein the apparatus is an electric apparatus, a vehicle or an industrial apparatus.

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20. An apparatus made by the method of claim 16.

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21. The apparatus of claim 20, wherein the apparatus is a vehicle.--